Claims

[c1] 1. We claim as our invention:

A method for manufacturing an iron golf club head, the method comprising:

attaching a face plate to a periphery member to create a base assembly, the periphery member having a sole wall, a toe wall extending upward from the sole wall at a first end of the sole wall, a hosel extending upward from the sole wall at a second end of the sole wall, and a heel wall extending upward from the sole wall, the periphery member composed of a metal material having a density ranging from $8g/cm^3$ to $11g/cm^3$; and

bonding a central member to the base assembly, the central member having a body portion with a forward surface, a sole surface, a top surface, a toe surface, a heel surface and a flange extending from the top surface at an intersection of the top surface and the forward surface, the central member having a rear cavity defined by the body portion, the central member composed of a non-metal material having a density ranging from $0.9g/cm^3$ to $2.5g/cm^3$.

[c2] 2. The method according to claim 1 wherein the face plate is composed of a titanium alloy material and has a thickness ranging from 0.050 inch to 0.250 inch.

[c3] 3. The method according to claim 1 wherein the central member is composed of a bulk molding compound.

[c4] 4. The method according to claim 1 wherein the periphery member is composed of an iron-nickel-tungsten alloy.

[c5] 5. The method according to claim 1 wherein the central member has a volume percentage of the golf club head ranging from 25% to 75%, and a mass percentage of the golf club head ranging from 10% to 30%.

[c6] 6. The method according to claim 1 wherein the periphery member has a volume percentage of the golf club head ranging from 15% to 50%, and a mass percentage of the golf club head ranging from 50% to 80%.

[c7] 7. A method for manufacturing an iron golf club head, the method comprising:

attaching a metal face plate to a metal periphery member to create a base

assembly, the periphery member having a sole wall, a toe wall extending upward from the sole wall at a first end of the sole wall, a hosel extending upward from the sole wall at a second end of the sole wall, and a heel wall extending upward from the sole wall, the periphery member composed of a metal material having a density ranging from $8g/cm^3$ to $11g/cm^3$; and bonding a non-metal central member to the base assembly, the central member having a body portion with a forward surface, a sole surface, a top surface, a toe surface, a heel surface and a flange extending from the top surface at an intersection of the top surface and the forward surface, the central member having a rear cavity defined by the body portion, the forward surface of the central member adhered to tan interior surface of the face plate and the flange of the central member adhered to an upper perimeter of the face plate, the central member composed of a non-metal material having a density ranging from $0.9g/cm^3$ to $2.5g/cm^3$.

[c8] 8. The method according to claim 7 wherein attaching the face plate to the periphery member comprises swaging the face plate onto the periphery member by deforming the face plate or the periphery member.

[c9] 9. The method according to claim 7 wherein attaching the face plate to the periphery member comprises brazing the face plate to the periphery member.

[c10] 10. The method according to claim 7 wherein attaching the face plate to the periphery member comprises adhering the face plate to the periphery member with an adhesive.

[c11] 11. The method according to claim 7 wherein attaching the face plate to the periphery member comprises swaging the face plate onto the periphery member by use of a brass locking ring.